



PRODUCT OUTLINE

CM1711ff – Li-Ion Battery Charger

±1% Accuracy (4.2V) / Up to 1500mA Fast Charge

Part Number

■ CM1711ff

Features

- Battery charger for SoC / PMIC
- Integrated power FET and sensing
- Charge from AC and USB
- Built-in NTC
- Reverse current protection
- Digitally programmable parameters
- Indicative area: 1.75mm²

Applications

- Portable devices SoC / PMIC
- Tablet PCs / Smart phones
- PDAs / Hand-helds

Technology

- SiITerra CL180GH5 0.18µm CMOS

Deliverables

- Datasheet/Integration Guide
- HDL Model
- Flat GDSII database/LVS netlist
- Customer Support

Status

- Silicon Proven

Overview

This macro-cell is a precision linear Li-Ion battery charger core (4.2V, ±1%) designed for SiITerra CL180GH5 0.18µm CMOS technology (5V).

The circuit has internal under/over-voltage, current/temperature protections. It includes a built-in NTC circuit with internal bias resistor for the battery thermistor. Charge current is digitally programmable from 100mA to 1500mA. It supports USB and AC adapter and features a backup charger (ML series).

Functional Diagram

